

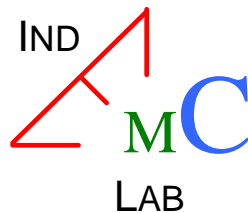


*University of Padova*  
*Department of Electrical Engineering*



# ***INDUSTRIAL ELECTROMAGNETIC COMPATIBILITY***

***Research Group***



***Industrial Electromagnetic  
Compatibility Laboratory  
(Ind\_EMCLab)***



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## *Staff*



- Daniele DESIDERI  
*Associate Professor of Electrical Engineering*  
desideri@die.unipd.it



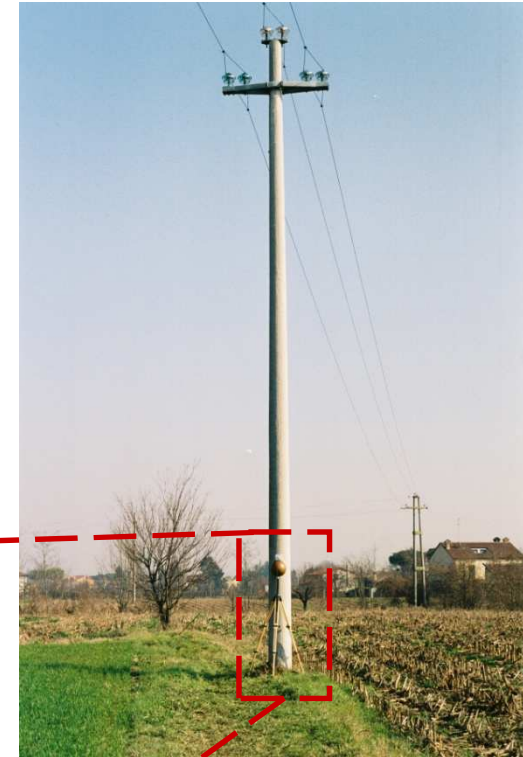
- Alvisè MASCHIO  
*Associate Professor of Electrical Engineering*  
maschio@die.unipd.it



## *Research activities*



- Human exposure to, and environmental analysis of, the electric fields due to medium voltage overhead lines supported by reinforced concrete poles.
  - Analytical models
  - Numerical analysis
  - Experimental validation





## *Research activities*



- Development of a two-port TEM cell for tests on industrial equipments and biological materials.

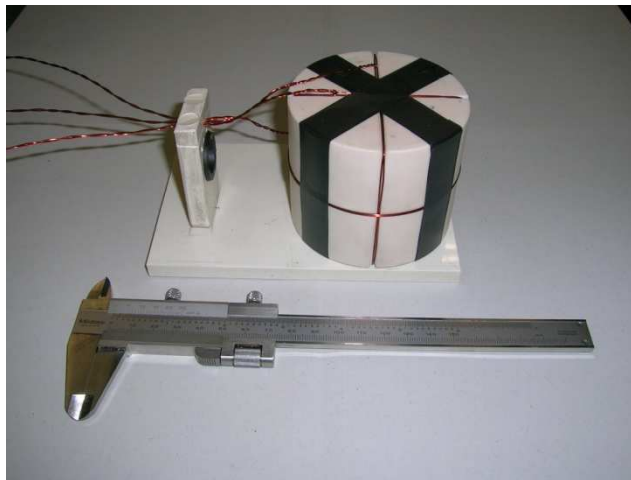




## *Research activities*



- Characterization of electrical equipments with reference to human exposure to magnetic fields and EMC standards.



- Development of systems for the measurement of the magnetic field (and relative test equipments).



## *Research activities*



- Magnetron sputtering system, for:
  - realization of electromagnetic shields;
  - deposition of thin films.

